

Purchase Order Receipt Listing

Monday, October 24, 2016 10:27:21 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO33886 Receipt Dates from 10/21/2016 to 10/21/2016 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VU-MET002 A.M. Castle & Co. (Canada) Inc.- C/O 910720											
PO33886	2		M7075T6B1.000x2.5 f 00		10/21/2016	10/21/2016	12.0000		0.0000	0	\$0.00
USD	No		7075-T6 Bar 1.000 x f 2.500"		12.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	3		M7075T73B4.000x4. f 000		10/21/2016	10/21/2016	8.0000		0.0000	0	\$0.00
	No		7075-T73 Bar 4.0 x f 4.0 grain direction along 4" wide		8.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	4		M174B1.250X02.000 f 17-4 SS Bar 1.250 x f 2.00		10/21/2016	10/21/2016	12.0000		0.0000	0	\$0.00
	No		m135933/151620/621		12.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	5		D6101-001P 7075-T7351 2X6X6.25	Each Each	10/21/2016	10/21/2016	20.0000		0.0000	0	\$0.00
	No		m135933/151620/621		20.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	6		D6101-007P 7075-T7351 8.25X7.75X2.5	Each Each	10/21/2016	10/21/2016	20.0000		0.0000	0	\$0.00
	No		m135933/151620/621		20.0000	PLOU01			0.0000	0	
			m135933/151620/621								
	7		71401-45 PROCUREMENT QUALITY CLAUSES		10/21/2016	10/21/2016	1.0000		0.0000	0	\$0.00
	No		m135933/151620/621		1.0000	PLOU01			0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<div> <div>Total Received Quantity:</div> <div>Total Qty to Inspect (PO U/M):</div> <div>Total Reject Quantity:</div> <div>Total Receipt Value:</div> <div>Total Balance Due Quantity:</div> </div>											73.0000 0.0000 0.0000 \$0.00 0.0000



Castle Metals®

A. M. Castle & Co.

**PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Page 1 of 2

Shipment No:3106150

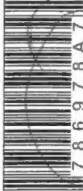
Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 20-OCT-16	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOU LIN	BOL No 3106150-2

Shipment Details

Order No 4519089	Line No 2	Item No 752188.MO	Description 1.0000.PL.7075.T651.ALUMINUM:USL.48.5000.144.5000 CUT 2SIDED TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com
Purchase Order No 33886	Part Number	Ordered Qty 1.00 PCS	Invoice Qty 1.00 PCS

Details
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S
Email P/s and certs to: clavoie@dartaero.com
END USER: DART AEROSPACE
END USE: COMMERCIAL AIRCRAFT PARTS

SP/6-10-24

Delivery No. 120601319	Mill KAISER ALUMINUM	Heat Number  786978A71	Mech Id 1	PCS 1	Width (IN)	Length (IN)	Shipped Qty(LBS) 37.6174
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These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.




Date Printed: 20-OCT-2016 03:36:20 PM



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Page 2 of 2

for credit Reviewed by Authorized Castile Metals Representative:			OCT 20 2016	Date:	Name:	
						

HR-01918

SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4418079

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CUSTOMER PO NUMBER: 378812		WORK PACKAGE:		CUSTOMER PART NUMBER: 752188		SHIP RUN/LOAD: 103558/22		GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1212700		LINE ITEM: 1	SHIP DATE: 9-MAY-2016	ALLOY: 7075	CLAD: BARE	TEMPER: T651	PRODUCT DESCRIPTION: KaiserSelect Plate			
WEIGHT SHIPPED: 3626 LB		QUANTITY: 5 PCS EST.		TRUCK B/L #: 2060184		GAUGE: 1.0000 IN (25.4000 MM)		DIAMETER/WIDTH: 48.500 IN (1231.9 MM)		LENGTH: 144.500 IN (3670.3 MM)

MHU 2001704: LOT 786935A7: 4 pieces;

MHU 2001832: LOT 786978A7: 1 pieces;

Certified Specifications

AMS 4045/RevK
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
PS 21211/RevP

AMS-QQ-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevU
GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevA
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 1512

Test Results

Lot: 786935A7 Cast 189 Drop 34 Ingot 3 Parent Lot: 173930B9 Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	82.8 : 83.5 (571 : 576)	73.5 : 74.8 (507 : 516)	13.1 : 13.2

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.19	1.5	0.02	2.5	0.19	5.8	0.02	0.01	0.01	TOT 0.06



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4418079

Lot: 786978A7 Cast 189

Drop 55

Ingot 2

Parent Lot: 173877B2 Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	83.1 : 83.7 (573 : 577)	74.0 : 75.0 (510 : 517)	12.9 : 13.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.13	1.6	0.02	2.5	0.20	5.6	0.02	0.01	0.01	TOT 0.05

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA-15403 R 8

TEST NOTES

Metal represented by this test report was 100% Type I
(immersion) ultrasonically tested from one side with 3mm
dead zones top and bottom and meets the Class A and Class B
requirements of all specifications referenced on this test
report. No surface marking of sonic indications is
performed.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:
* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
* has been thermally processed in compliance with AMS 2772, where applicable.
* is mercury free, within the limits of detection of ASTM E1251 (< = 1ppm).
* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, IECJ n°1807/2006.
* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

James Hemenway

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2



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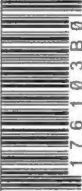
Page 1 of 2

Shipment No:3106150

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 20-OCT-16	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 3106150-2

Shipment Details

Final Destination Branch - TOR

Order No 4519089	Line No 3	Item No 752132.MO	Description 4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 48.5 IN (+ .0620/- .0000 IN (GRAIN TO RUN ALONG 4")) X 4 IN (+ .0620/- .0000 IN (GRAIN TO RUN ALONG 4")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com	
Purchase Order No 33886	Part Number	Ordered Qty 2.00 PCS	Invoice Qty 2.00 PCS	
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
Delivery No. 120601320	Mill KAISER ALUMINUM	Heat Number  17610380	Mech Id 2	Shipped Qty(LBS) 160.8277

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

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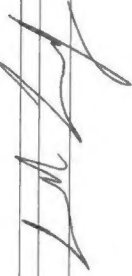


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A. M. Castle & Co.

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Page 2 of 2

for credit.	Reviewed by Authorized Castle Metals Representative:		OCT 20 2016	Date:	Name:	
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Sp/6-10-24

SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4420569

CUSTOMER PO NUMBER: 378805		WORK PACKAGE:		CUSTOMER PART NUMBER: 752132		SHIP RUN/LOAD: 103581/13		GOV'T CONTRACT NUMBER:		
KAISER ORDER NO: 1212702		LINE ITEM: 1	SHIP DATE: 1-JUN-2016	ALLOY: 7075	CLAD: BARE	TEMPER: T7351	PRODUCT DESCRIPTION: KaiserSelect Plate			
WEIGHT SHIPPED: 5700 LB		QUANTITY: 2 PCS EST.		TRUCK B/L #: 2060588		GAUGE: 4.0000 IN (101.6000 MM)		DIAMETER/WIDTH: 48.500 IN (1231.9 MM)		LENGTH: 144.500 IN (3670.3 MM)

MHU 1999057: LQT 17610380: 1 pieces;

MHU 2000203: LOT 173844B2: 1 pieces;

Certified Specifications

AMS 4078/RevJ
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
MMS 159/RevT

AMS-QQ-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevU
GAMPS 9101/RevB/AmdSCN1
PS 21211/RevP

AMS-STD-2154/RevA
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 4297

Test Results

Lot: 173844B2 Cast 189

Drop 37

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	62.1 : 63.2 (428 : 436)	49.7 : 50.6 (343 : 349)	10.3 : 10.9

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	42.2 Min	42.4 Max
(MS/M) :	24.5 Min	24.6 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.6	0.02	2.5	0.19	6.0	0.03	0.01	0.02	TOT 0.05



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4420569

Lot: 176103B0 Cast 189

Drop 33

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	63.5 : 63.5 (438 : 438)	50.7 : 50.9 (350 : 351)	10.4 : 10.7

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	42.2 Min	42.4 Max
(MS/M) :	24.5 Min	24.6 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	TOT	OTHER
Actual(wt%)	0.06	0.16	1.5	0.02	2.5	0.20	5.8	0.02	0.01	0.02		0.05

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA-15413E R 6

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1251 (< = 1 ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

James Hemenway

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER





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Page 1 of 2

Shipment No:3104736

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 19-OCT-16	F.O.B. ORIGIN	Freight Terms Prepaid		Carrier MANITOU LIN	BOL No 3104736-2		

Shipment Details

Final Destination Branch - TOR

Order No 4522995	Line No 2	Item No 9166.BO	Description 1.2500.2.0000.FLAT.17CR-4NI.STAINLESS.HR.ANN.PICKLE.132.0000 156.0000 SPECIFICATIONS: AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com			
Purchase Order No 33886		Part Number		Ordered Qty 102.00 LBS	Invoice Qty 12.5417 FT	
Details END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
Delivery No. 120614174	Mill	Heat Number  264319	Mech Id 1	Width (IN)	Length (IN) 150.5000	Shipped Qty(LBS) 108.0000

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

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A. M. Castle & Co.

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Reviewed by Authorized Castle Metals Representative:		OCT 19 2016	Date:	Name:	
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Page 2 of 2

8016-10-21

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
Telephone number : 0039 (0) 444988211

Clienti / Kunden / Clients
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
48901-FORT WAYNE, IN 48901-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Produktionsunternehmen

Avviso di Spedizione: D-V114033847
Lieferungsbescheinigung L265 L

Ordine nr: 33666 STOCK CAROL STR
Bestell-/Lieferungsnummer

Tipo di Elaborazione: E+AOD
Herstellung/Verfahren: elektroschmelzmetallurgische

Certificato nr: MEST690980/2014/
Prüfung/Zertifikat

Conferma ordine nr: E114004488
Werkbestätigung

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Signe du fournisseur

Partenza del Collaudatore:
Bispedat des Werkstoffprüfingen
Inspector's stamp/Prüfung des Fabrikanten



Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Lieferungszustand: aus der Walzstraße

Specifiche:
Anforderungen / Requirements / Bedingungen

V81 FLAT-2 630 A
AMS 5645 R 517400 A
ASTM A564 2013 517400 A

AISI 530
ASME SA564 2013 517400 A (0)
ASTM F899 2012 630

AMS 2303 F.
ASTM A370 2013.

(0) SECTION II PART A 2013 EDITION

Qualità: 630

Veredelungsbezeichnung

Marca:
Markenbezeichnung
Brennmarken

V174

Tolleranza: ASTM A484-14 TABLE 5
Toleranz/Messabweichung

Purezza: 630
Reinheitsgrad/Reinheitsgrad

Pos. nr. Pos. nr. No. de position	Opzioni Optionen Product description Description du produit	Dimensioni - in Abmessungen Dimension	Lunghezza - in Length Longueur	Colore Farbe Color	Peso Gewicht Poids	Peso - LB Gewicht Poids	Lotto nr. Losn. Lot n.
0110	Fial	3,0000 x 1,2500	151 / 152	264319	4,214	4,214	409208310

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf Lieferzustand Produkt Test à l'état de livraison Prüfung sobre el material así como entregado									
TEST	Proveita/Prüfung Long. max. min. Länge max. min. mm	F	Snervamento Biegeversuch Biegeversuch mm	Snervamento Biegeversuch Biegeversuch mm	Resistenza Zugversuch Zugversuch N/mm²	Allungamento Zugversuch Zugversuch %	Strizione Zugversuch Zugversuch %	Resistenza Zugversuch Zugversuch N/mm²	Durezza Härte Härte HB
Valori richiesti 1 Anforderungen/Bedingungen Voraussetzungen	min max								363
A									353

TEST	min	max
A Delta Ferrite	5,0	1,0 %
A Grain size for ASTM E112	6	
A RATINGS FREQUENCY	1,10	0
A RATINGS SEVERITY	1,05	0

Sample cond. H900									
Tipo Trattamento Heat Treatment Temperament	Temperatura Temperature Temperatur	Raffreddamento Cooling Abkühlung	Permanenza Retention Halten	Tipo Trattamento Heat Treatment Temperament	Temperatura Temperature Temperatur	Raffreddamento Cooling Abkühlung	Permanenza Retention Halten	Tipo Trattamento Heat Treatment Temperament	Temperatura Temperature Temperatur
Ageing	500 °F	AIR	50	Ageing	500 °F	AIR	50	Ageing	500 °F
TEST	Proveita/Prüfung Long. max. min. Länge max. min. mm	F	Snervamento Biegeversuch Biegeversuch mm	Snervamento Biegeversuch Biegeversuch mm	Resistenza Zugversuch Zugversuch N/mm²	Allungamento Zugversuch Zugversuch %	Strizione Zugversuch Zugversuch %	Resistenza Zugversuch Zugversuch N/mm²	Durezza Härte Härte HB
Valori richiesti 1 Anforderungen/Bedingungen Voraussetzungen	min max		170	180	190	10	40		388 444
B	12,5	68	L	180	204	17	52		432

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

1) Longitudinalmente, Transversalmente, Di Taglio e Di Spessore

Vicenza, 22/10/14
Vicepres
(Date: 2014)

Il collaudatore di stabilimento / der Werkstoffprüfer / Working Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004), 3.1

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
Telephone number: 0039 (0) 444989211

Clients / Destinatari/Customers
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
48801-FORT WAYNE, IN 48801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Hersteller producer

Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Lieferung state/Condition des livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14033947
Lieferungsbefehl/Shipping order

Ordine nr: 39666 STOCK CAROL STR
Bestell/Nr/order/Commande

Tipo di Elaborazione: E+AOD

Produkt/Unveredelung/Elaboration process/Mode of elaboration

Certificato nr: MEST890980/2014/
Prüfung/Inspektion

Conferma ordine nr: E114004468
Werk/Our Order/Nr.

Marchio di Fabbrica:
Zusammen/Lieferanten
Trade mark
Signet/Uns producer

Funzione del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Funktion des T. Inspektor



Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse

Colore Heat Treatment/Color	min - max 0,070	1,00	1,00	16,00 17,00	0,50	3,00 5,00	3,00 5,00	-	0,040	0,030	0,030	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	Ta %	-	-	-
284319	0,040	0,40	0,48	15,10	0,18	3,22	4,90	0,044	0,028	0,001	0,033	0,0018	-	-	-

Colore Heat Treatment/Color	min 0,150 max 0,250	0,20	0,250	-	-	-	-	-	-	-	-	-	-	-	-
	Nb%+Ta%	-	-	0,250	-	-	-	-	-	-	-	-	-	-	-
284319	0,261	-	-	0,259	-	-	-	-	-	-	-	-	-	-	-

Material solution annealed 1904F for 1 h.
air cooled to below 80F.

Micro and macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Reduction ratio > 4 : 1

Macro etch test: satisfactory.

Material is DPAPS Compliant

Bene stato soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind lt. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le conditions à été respectées aux exigences

Controllo antiriscossione: OK
Verwechslungsprüfung: spezifikationskonform durchgeführt
Anleitung being performed OK
Controlle antiriscossione: OK

Controllo visivo e dimensionale: soddisfa le esigenze
Bezeichnung und Ausmessung ohne Beanstandung
Visual inspection and dimensional check/Controlle primary
Controlle visuel et dimension: satisfait

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc: Pressure Equipment Directive (97/23/EC) Annex 1, s. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 22/10/14

MCC000
(Mod. MC02)

Il collaudatore di stabilimento / der Werksachverständige / Work Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T3 B4.00X4.00
 DATE: 11/10/25

PO / BATCH NO.: 33886/135933

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8
 QUANTITY INSPECTED: 8
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 4.00
 THICKNESS RECEIVED: 3.975
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>3.975</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>AMS-QQ-A-250/12</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>HEAT # 17610380</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>M7075T3 B4.00X4.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____ DATE: <u>11/10/25</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174B1.250X2.00
 DATE: 11/10/26

PO / BATCH NO.: 33886/135933

MATERIAL CERT REC'D: 481
 QUANTITY RECEIVED: 12.5'
 QUANTITY INSPECTED: 12.5'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>#17-1</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>1.250</u>
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>A43 5643</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>HEAT# 264319</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>M174B1.250X2.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>M135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9m</u> DATE: <u>11/10/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T6B1.00X2.50

PO / BATCH NO.: 33886/135933

DATE: 11/10/26

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.00

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.00

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	<u>7075T6</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	<u>1.00</u>
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	<u>AMS-QQ-A-250/12</u>
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	<u>HEAT# 786978A7</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	<u>M7075T6B1.00X2.50</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	<u>B135933</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>11/10/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 1 of 4

OCT 06 2016

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M7075T6B1.000X00.250	7075-T6 BAR 1.000' X 0.250"	10/21/2016 Yes 10/21/2016		12.00 f	\$15.95	\$191.40
MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE							
Line Total:							\$191.40
2	M7075T6B1.000x2.500	7075-T6 Bar 1.000 x 2.500"	10/21/2016 Yes 10/21/2016	FN	12.00 f	\$20.75	\$249.00
MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE							
Line Total:							\$249.00

Note:

10/6/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 2 of 4

Order From :

VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

Terms

Currency

FOB

10127-2607

Net 30

USD

Destination-Collect

3	M7075T73B4.000x4.000	7075-T73 Bar 4.0 x 4.0 grain direction along 4" wide	10/21/2016	8.00	\$100.84	\$806.74
---	----------------------	--	------------	------	----------	----------

Yes

f

10/21/2016

MATERIAL: 7075-T73/T73510T73511 BAR AS PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078

NOTE: GRAIN DIRECTION MUST RUN ALONG 4" WIDE CUT IN 2PCS OF 4 FT

Line Total: \$806.74

4	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	10/21/2016	12.00	\$55.62	\$667.44
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Yes

f

10/21/2016

MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD TENSILE STRENGTH = 100KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 150KSI

8/16-10-24.

Line Total: \$667.44

Note:

10/6/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 3 of 4

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

5	D6101-001P ✓	7075-T7351 2X6X6.25 ✓	10/21/2016 Yes 10/21/2016	20.00 ✓ Each	\$26.88	\$537.60
---	--------------	-----------------------	---------------------------------	-----------------	---------	----------

AS PER DWG D6101 REV. B
B151620 ✓
SIZE: 6.00" X 6.250" X 2.00" THICK
GRAIN DIRECTION ALONG 6.00" LENGHT
MATERIAL: 7075-T7351 QQ-A-250/12
TOLERANCE AS PER QUOTE +.030"/-.000"

Line Total: \$537.60

6	D6101-007P ✓	7075-T7351 8.25X7.75X2.5 ✓	10/21/2016 Yes 10/21/2016	20.00 ✓ Each	\$56.11	\$1,122.20
---	--------------	-------------------------------	---------------------------------	-----------------	---------	------------

AS PER DWG D6101 REV. B
B151621 ✓
MATERIAL: 7075-T7351 (QQ-A-250/12)
SIZE: 7.750" X 8.250" X 2.50" THICK
GRAIN DIRECTION ALONG: 7.750" LENGTH
TOLERANCE AS PER QUOTE +.030"/-.000"

Line Total: \$1,122.20

Sp/6-10-24

Note:

10/6/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33886

Purchase Order Date 10/6/2016

PO Print Date 10/6/2016

Page Number 4 of 4

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

7 71401-45

PROCUREMENT
QUALITY CLAUSES

10/21/2016

1.00

\$0.00

\$0.00

No

10/21/2016

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A017 RAW MATERIAL IDENTIFICATION (AS
APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

Sp16-10-24

Line Total:

\$0.00

PO Total:

\$3,574.38

W
CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 10/6/2016